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May 19, 1992

DERWENT-ACC-NO: 1992-214264

DERWENT-WEEK: 199747

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TITLE: Purified chlorogenic acid prepn. - involves contact-treatment of extracted prod. from raw coffee bean using porous polymer resin treated with alkaline aq. soln.

PATENT-ASSIGNEE: HASEGAWA CO LTD (HASE)

PRIORITY-DATA: 1990JP-0265202 (October 4, 1990)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> JP 04145049 A	May 19, 1992		004	C07C069/732
<input type="checkbox"/> JP 2665990 B2	October 22, 1997		003	C07C069/732

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 04145049A	October 4, 1990	1990JP-0265202	
JP 2665990B2	October 4, 1990	1990JP-0265202	
JP 2665990B2		JP 4145049	Previous Publ.

INT-CL (IPC): C07C 67/56; C07C 69/732; C09K 15/08

ABSTRACTED-PUB-NO: JP 04145049A
BASIC-ABSTRACT:

The process comprises (1) contact-treatment of extn. prod. from raw coffee bean with water-contg. solvent, using porous polymer resin of styrene-divinyl benzene or methacrylate; and (2) treatment of the polymer resin with dilute alkaline aq. soln. for selective sepn. of chlorogenic acids. Pref. water-contg. solvent is methanol cong. 5-95 wt.% of water; porous resin contg. styrene-divinyl benzene is Dia Ion SP-207 (RTM); and that contg. methacrylate is Dia Ion HP1MG (RTM). The alkaline aq. soln. is that contg. 0.2-2 wt.% of NaOH or Na₂CO₃.

USE/ADVANTAGE - Purified chlorogenic acid obtd. from coffee bean is useful for antioxidant in food and pharmaceuticals.

In an example, granule of coffee raw bean (600g) and 70% methanol (2400g) are stirred at 65 deg. C for 3 hrs. to form coffee extract soln., which is condensed, and formed into mixt. (1000g) with addn. of water and edible salt (100g). The mixt. is treated with SP-207 (RTM) (400ml) contained in column. The column is cleaned with water, and treated with 0.5% Na₂C O₃ aq. soln. to obtain elution soln., which

is treated with column of SK-116 of cationic exchange resin (200 ml) to obtain purified chlorogenic acid (33g) contg. no caffeine and trigonelline

ABSTRACTED-PUB-NO: JP 04145049A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: B05 B07 D13 E14
CPI-CODES: B10-C03; B12-M06; D03-H01P; E10-C03;

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